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Conventional Wisdom?

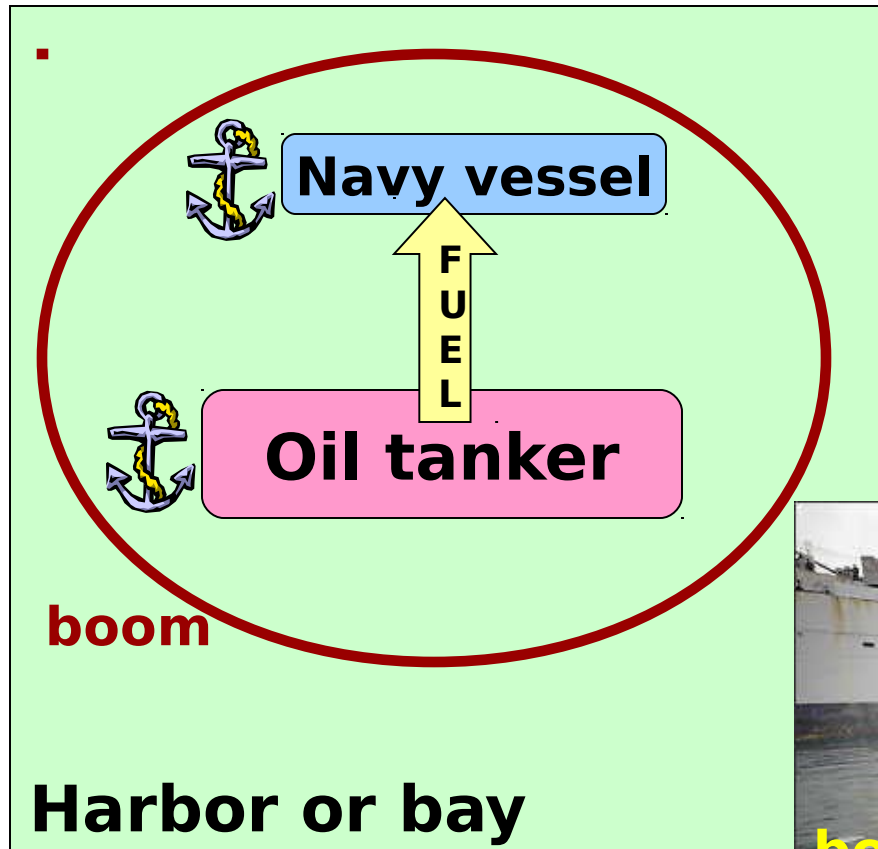


**a better way
for the Navy to
refuel ships
overseas**

Matthew Philipp



Terminology



Bunker as a verb:

**to provide
a ship
with fuel**





The problem

Does the Navy need to build fuel piers across the entire globe in support of the war on terrorism?



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- # **Agenda**
- **Getting fuel**
 - **Forward presence**
 - **Complying overseas**
 - **Preventing pollution**
 - **Future implications**



Where Navy ships get fuel

Location:

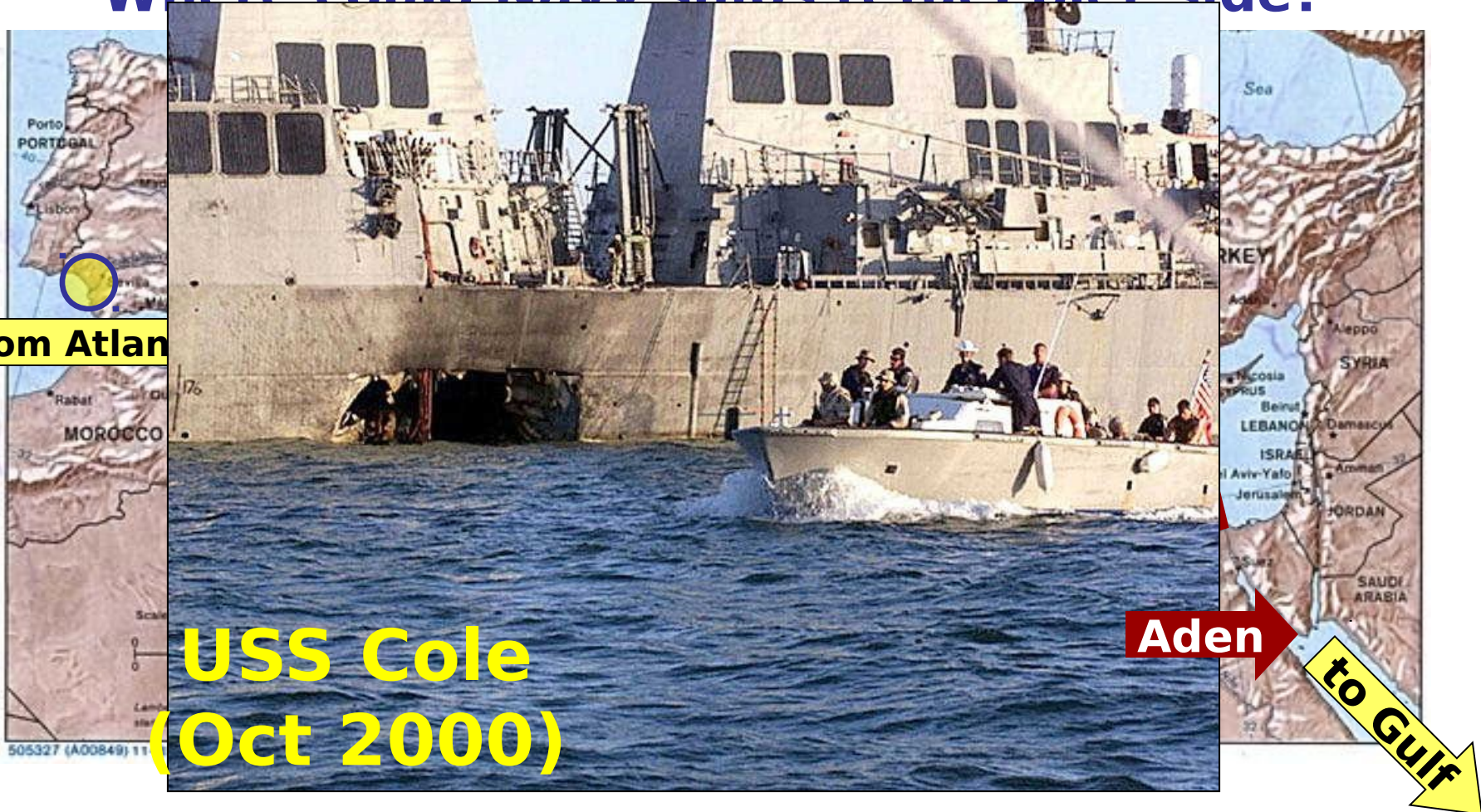
- At fuel pier
- At anchor
- Underway





Implications of forward presence

Where could Navy ships refuel pier-side?



A solution

Refuel by “bunkering” in strategic harbors and bays





Complying overseas

... sometimes *less*
sensitive



Greek use of
"dispersants"



Preventing pollution

Best management practices:

Skimmer *pre-positioned*





Decision making

Risk-adverse culture - “minimize risk” to:

- safety and health
- the environment
- **mission success**



... the Navy does *not* budget for spill response



Future implications

Transformation:



**Expeditiona
ry
Strike
Group**

- More battle groups
- Less ships (increased capabilities)
- Positioned at more locations

= Global refueling need



Conclusion

Benefits:	At fuel pier	At anchor	Underway
Risk		the most <i>sustainable</i> solution	
Ease			
Weather			
Response			
Footprint			
Host nation			
Expeditionary			
Force protection			



Environment
Mission



Conventional Wisdom?



Questions

**for a copy of my paper or
this presentation, please
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